

according to Regulation (EC) No 1907/2006

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 1 of 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

L&R Uhrenspüllösung #3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

cleaning solution

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	Bullnheimer & Co GmbH & CO KG		
Street:	Im Tal 12		
Place:	D-86179 Augsburg		
Telephone:	+49 821 80850-0	Telefax:	+49 821 80850-90
e-mail:	info@bullnheimer.de		
Contact person:	Michela Da Re' Okunmeh	Telephone:	+49 821 80850-25
e-mail:	dare@bullnheimer.de		
Internet:	http://www.bullnheimer.de		

1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Aspiration hazard: Asp. Tox. 1

Specific target organ toxicity - repeated exposure: STOT RE 1

Hazard Statements:

Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes damage to organs through prolonged or repeated exposure.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Stoddard solvent; Low boiling point naphtha - unspecified

Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha

Signal word: Danger

Pictograms:



Hazard statements

H226

Flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 2 of 12

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container to local/regional/national/international regulations.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
8052-41-3	Stoddard solvent; Low boiling point naphtha - unspecified			70 - 80 %
	232-489-3	649-345-00-4		
	Flam. Liq. 3, STOT RE 1, Asp. Tox. 1; H226 H372 H304			
64742-89-8	Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha			20 - 30 %
	265-192-2	649-267-00-0		
	Asp. Tox. 1; H304			

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons.

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 3 of 12

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam.
In case of major fire and large quantities: Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO₂).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate affected area.
Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.
Wear personal protection equipment. (See section 8.)

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Safety Data Sheet

according to Regulation (EC) No 1907/2006

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 4 of 12

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaust at critical locations.
Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.
Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.
Ensure adequate ventilation of the storage area.
Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases.
Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides.
Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
Protect against: UV-radiation/sunlight. heat. Humidity frost.
storage temperature: 15-25°C

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

The usual precautions for handling chemicals should be considered.
Keep away from food, drink and animal feedingstuffs.
Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 5 of 12

Eyeface protection

Wear safety glasses; chemical goggles (if splashing is possible). DIN EN 166

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. (DIN EN 374)

Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time \geq 480 min. penetration time (maximum wearing period): ~ 120 min. (estimated)

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols
exceeding exposure limit values

Insufficient ventilation.

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	white
Odour:	characteristic
pH-Value:	not determined

Changes in the physical state

Melting point:	not applicable
Initial boiling point and boiling range:	85 °C
Flash point:	31 °C

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	1 vol. %
Upper explosion limits:	8 vol. %
Ignition temperature:	not determined
Decomposition temperature:	not determined

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 6 of 12

Oxidizing properties

none.

Vapour pressure: 226,67 hPa
(at 37,8 °C)

Density: 0,758 g/cm³

Water solubility: insoluble

Solubility in other solvents

not determined

Viscosity / dynamic: not determined
(at 40 °C)

Viscosity / kinematic: not determined
(at 20 °C)

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. moisture.
In use may form flammable/explosive vapour-air mixture.
Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

10.6. Hazardous decomposition products

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.
The product has not been tested.

CAS No	Chemical name
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 7 of 12

	Exposure route	Dose	Species	Source	Method
64742-89-8	Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	inhalation (4 h) aerosol	LC50 5,610 mg/l	Rat	ECHA Dossier	

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (Stoddard solvent; Low boiling point naphtha - unspecified)

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No data available.

Further information

Solvent:

Symptoms: Depression of the central nervous system. Liver and kidney damage. drowsiness. vomiting. Nausea. Dizziness. unconsciousness. Impaired consciousness. Intoxication. erythema (redness)

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-89-8	Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha					
	Acute algae toxicity	ErC50 3,1 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 4,5 mg/l	48 h	Daphnia magna	REACH Dossier	OECD Guideline 202
	Fish toxicity	NOEC 2,6 mg/l	21 d	Daphnia magna	REACH Dossier	OECD Guideline 211
	Crustacea toxicity	NOEC 2,6 mg/l	21 d	Daphnia magna	REACH Dossier	OECD Guideline 211

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 8 of 12

	Method	Value	d	Source
	Evaluation			
64742-89-8	Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha			
	ISO/DIS 14593	90	28	ECHA Dossier
	Biodegradable.			

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1993
<u>14.2. UN proper shipping name:</u>	FLAMMABLE LIQUID, N.O.S. (naphtha; Petroleum)
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	III
Hazard label:	3

Safety Data Sheet

according to Regulation (EC) No 1907/2006

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 9 of 12



Classification code: F1
Special Provisions: 274 601
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (naphtha; Petroleum)
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Classification code: F1
Special Provisions: 274 601
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (naphtha; Petroleum)
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Marine pollutant: NO
Special Provisions: 223, 274, 955
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (naphtha; Petroleum)
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3

Safety Data Sheet

according to Regulation (EC) No 1907/2006

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 10 of 12



Special Provisions:	A3	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

See section 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 3, 40

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

SECTION 16: Other information

Changes

Rev. 1.00; Initial release 13.08.2019

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
AGW: Arbeitsplatzgrenzwert
AVV: Abfallverzeichnisverordnung
CAS Chemical Abstracts Service
CLP: Classification, Labelling and Packaging of substances and mixtures
DNEL: Derived No Effect Level
d: day(s)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 11 of 12

- EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- ECHA: European Chemicals Agency
- EWC: European Waste Catalogue
- IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
- h: hour
- LOAEL: Lowest observed adverse effect level
- LOAEC: Lowest observed adverse effect concentration
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- NOAEL: No observed adverse effect level
- NOAEC: No observed adverse effect level
- NLP: No-Longer Polymers
- N/A: not applicable
- OECD: Organisation for Economic Co-operation and Development
- PNEC: predicted no effect concentration
- PBT: Persistent bioaccumulative toxic
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- REACH: Registration, Evaluation, Authorisation of Chemicals
- SVHC: substance of very high concern
- TRGS Technische Regeln fuer Gefahrstoffe
- UN: United Nations
- VOC: Volatile Organic Compounds
- VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
- WGK: Wassergefaehrdungsklasse

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Asp. Tox. 1; H304	Calculation method
STOT RE 1; H372	Calculation method

Relevant H and EUH statements (number and full text)

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H372 Causes damage to organs through prolonged or repeated exposure.

Further Information

- Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:
- Health hazards: Calculation method.
- Environmental hazards: Calculation method.
- Physical hazards: On basis of test data and / or calculated and / or estimated.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

L&R Uhrenspüllösung #3

Revision date: 13.08.2019

Product code: 5308.3

Page 12 of 12

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)